

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An electromagnetic wave irradiation tool comprising:
a narrow tube defined by an outside diameter of 0.1 mm - 20 mm, ~~having~~ including an electromagnetic wave irradiation terminal configured to irradiate an electromagnetic wave of terahertz band having a frequency equal to a characteristic frequency of a ~~microorganism~~ cell of a biological body at the top of the narrow tube so as to excite the cell by the electromagnetic wave emitted from the electromagnetic wave irradiation terminal; and
an electromagnetic wave generation unit configured to generate the electromagnetic wave and to supply the electromagnetic wave to the electromagnetic wave irradiation terminal.

Claim 2 (Currently Amended): The electromagnetic wave irradiation tool of claim 1, wherein the narrow tube further comprises a temperature detecting unit configured to detect temperature of the ~~microorganism~~ cell.

Claim 3 (Currently Amended): ~~[[The]]~~ An electromagnetic wave irradiation tool ~~of claim 1,~~ comprising:
a narrow tube defined by an outside diameter of 0.1 mm - 20 mm, including an electromagnetic wave irradiation terminal configured to irradiate an electromagnetic wave having a frequency equal to a characteristic frequency of a cell of a biological body at the top of the narrow tube; and
an electromagnetic wave generation unit configured to generate the electromagnetic wave and to supply the electromagnetic wave to the electromagnetic wave irradiation terminal,

wherein the electromagnetic wave generation unit further comprises a frequency adjustment device configured to adjust the frequency of the electromagnetic wave being irradiated to the ~~microorganism~~ cell so as to follow a change of the characteristic frequency.

Claim 4 (Original): The electromagnetic wave irradiation tool of claim 1, wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.

Claim 5 (Currently Amended): An electromagnetic wave irradiation tool comprising:
an antenna-supporting member;
an antenna provided on the antenna-supporting member; and
an electromagnetic wave generation unit configured to supply an electromagnetic wave of terahertz band having a frequency equal to a characteristic frequency of a ~~microorganism~~ cell of a biological body so as to excite the cell by the electromagnetic wave emitted from the antenna.

Claim 6 (Currently Amended): ~~[[The]]~~ An electromagnetic wave irradiation tool ~~of claim 5, comprising:~~

an antenna-supporting member;
an antenna provided on the antenna-supporting member; and
an electromagnetic wave generation unit configured to supply an electromagnetic wave having a frequency equal to a characteristic frequency of a cell of a biological body,

wherein the electromagnetic wave generation unit further comprises a frequency adjustment device configured to adjust the frequency of the electromagnetic wave being irradiated to the ~~microorganism~~ cell so as to follow a change of the characteristic frequency.

Claim 7 (Original): The electromagnetic wave irradiation tool of claim 5, wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.

Claim 8 (Currently Amended): An electromagnetic wave irradiation tool comprising:
a blood irrigation system ~~having~~ including:

a blood-draw line configured to draw blood from a biological body, and
a blood-return line configured to return the blood to the biological body;
an electromagnetic wave irradiation unit configured to irradiate an
electromagnetic wave of terahertz band having a frequency equal to a characteristic
frequency of a ~~microorganism~~ cell of a biological body existing in the blood in the
blood-draw line so as to excite the cell by the electromagnetic wave; and
an electromagnetic wave generation unit configured to supply the
electromagnetic wave to the electromagnetic wave irradiation unit.

Claim 9 (Currently Amended): ~~[[The]]~~ An electromagnetic wave irradiation tool ~~of~~
~~claim 8,~~ comprising:

a blood irrigation system including:

a blood-draw line configured to draw blood from a biological body, and
a blood-return line configured to return the blood to the biological body;
an electromagnetic wave irradiation unit configured to irradiate an
electromagnetic wave having a frequency equal to a characteristic frequency of a cell
of a biological body existing in the blood in the blood-draw line; and

an electromagnetic wave generation unit configured to supply the electromagnetic wave to the electromagnetic wave irradiation unit,
wherein the electromagnetic wave generation unit further comprises a frequency adjustment device configured to adjust the frequency of the electromagnetic wave being irradiated to the ~~microorganism~~ cell so as to follow a change of the characteristic frequency.

Claim 10 (Original): The electromagnetic wave irradiation tool of claim 8, wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.

Claim 11 (New): The electromagnetic wave irradiation tool of claim 1, wherein the electromagnetic wave generation unit generates the electromagnetic wave of one THz to 100THz.

Claim 12 (New): The electromagnetic wave irradiation tool of claim 1, wherein the cell is an abnormal cell, caused by parasitism of a microorganism, or by mutation.

Claim 13 (New): The electromagnetic wave irradiation tool of claim 12, wherein the electromagnetic wave generation unit adjusts the frequency to a resonance frequency of the abnormal cell so as to cause selectively a resonance state of the abnormal cell, so that normal cells around the abnormal cell are not excited by the electromagnetic wave.

Claim 14 (New): The electromagnetic wave irradiation tool of claim 5, wherein the electromagnetic wave generation unit generates the electromagnetic wave of one THz to 100THz.

Claim 15 (New): The electromagnetic wave irradiation tool of claim 5, wherein the cell is an abnormal cell, caused by parasitism of a microorganism, or by mutation.

Claim 16 (New): The electromagnetic wave irradiation tool of claim 15, wherein the electromagnetic wave generation unit adjusts the frequency to a resonance frequency of the abnormal cell so as to cause selectively a resonance state of the abnormal cell, so that normal cells around the abnormal cell are not excited by the electromagnetic wave.

Claim 17 (New): The electromagnetic wave irradiation tool of claim 8, wherein the electromagnetic wave generation unit generates the electromagnetic wave of one THz to 100THz.

Claim 18 (New): The electromagnetic wave irradiation tool of claim 8, wherein the cell is an abnormal cell, caused by parasitism of a microorganism, or by mutation.

Claim 19 (New): The electromagnetic wave irradiation tool of claim 18, wherein the electromagnetic wave generation unit adjusts the frequency to a resonance frequency of the abnormal cell so as to cause selectively a resonance state of the abnormal cell, so that normal cells around the abnormal cell are not excited by the electromagnetic wave.